

FIG.1

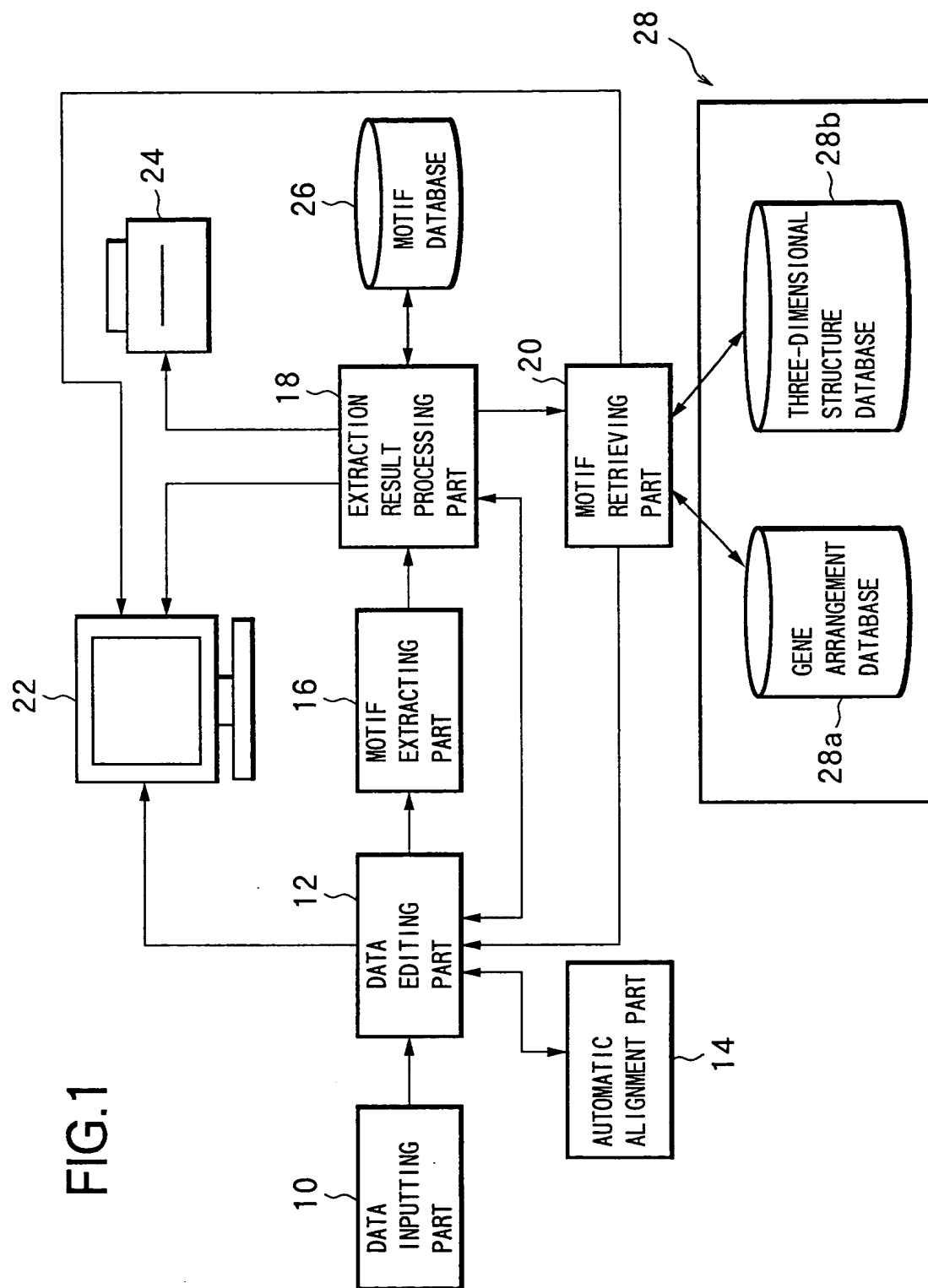


FIG.2

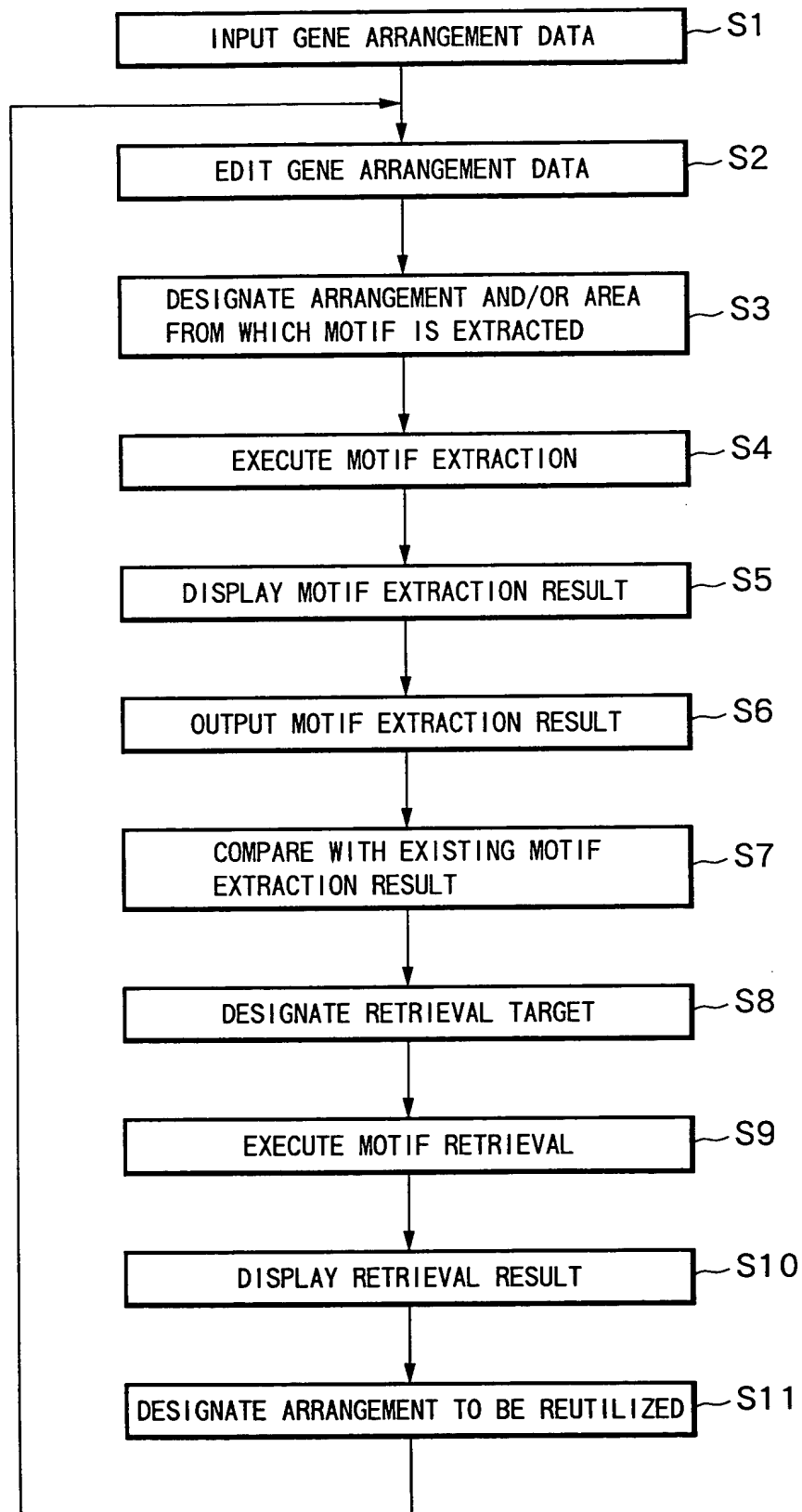


FIG.3

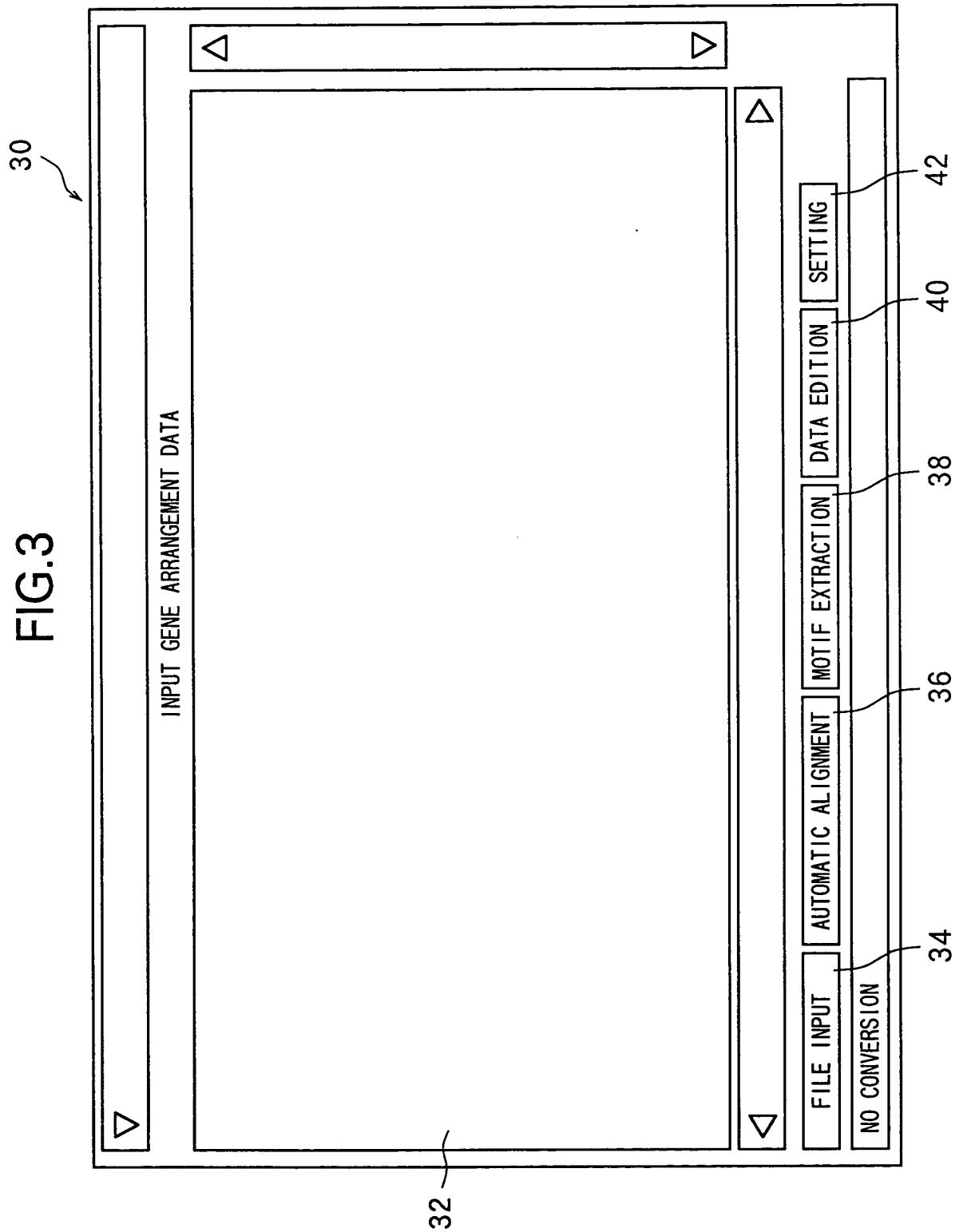


FIG. 4

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INPUT GENE ARRANGEMENT DATA

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	10	20	30	40	50	60
XLEN2MAB-1	+	+	+	+	+	+
BFU82487-1	+	+	+	+	+	+
BRENG1-1	+	+	+	+	+	+
BRENG2-1	+	+	+	+	+	+
BRENG2G-1	+	+	+	+	+	+
BRENG3-1	+	+	+	+	+	+
MUSEN2AB-1	+	+	+	+	+	+

	70	80	90	100	110	120
XLEN2MAB-1	+	+	+	+	+	+
BFU82487-1	+	+	+	+	+	+
BRENG1-1	+	+	+	+	+	+
BRENG2-1	+	+	+	+	+	+
BRENG2G-1	+	+	+	+	+	+
BRENG3-1	+	+	+	+	+	+
MUSEN2AB-1	+	+	+	+	+	+

	130	140	150	160	170	180
XLEN2MAB-1	+	+	+	+	+	+
BFU82487-1	+	+	+	+	+	+
BRENG1-1	+	+	+	+	+	+

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INPUT GENE ARRANGEMENT DATA

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FILE INPUT

AUTOMATIC ALIGNMENT

MOTIF EXTRACTION

DATA EDITION

SETTING

NO CONVERSION

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FIG. 5

EDIT GENE ARRANGEMENT DATA

	10	20	30	40	50	60
<p>XLEN2MAB-1 BFU82487-1 BRENG1-1 BRENG2-1 BRENG2G-1 BRENG3-1 MUSEN2AB-1</p>	<p>.....+ -----MEENEONREVEPQOE-SG -----MANSSADENGPPASPPPHSPVQPEDSPS -----MEDQR-RGQGEEDDSGSLPSPLL -----MDENEOSARVE-OR-GA-D -----MDENEOSARVE-OR-GA-D -----MEENDHSNRDVE-RQ-DS-D -----MEEKDKPSE-AAEAORQPEPSSGGGGG-SP</p>	<p>.....+ -----EESNRG -----ESNS-A -----ESNS-A -----ESNR-A -----SDSDTGRRRRLMLPEVLO--APG</p>	<p>.....+ -----ILHQAPPG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG</p>	<p>.....+ -----EESNRG -----ESNS-A -----ESNS-A -----ESNR-A -----SDSDTGRRRRLMLPEVLO--APG</p>	<p>.....+ -----ILHQAPPG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG</p>	<p>.....+ -----ILHQAPPG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG -----IRPLLQ--APG</p>

	70	80	90	100	110	120
<p>XLEN2MAB-1 BFU82487-1 BRENG1-1 BRENG2-1 BRENG2G-1 BRENG3-1 MUSEN2AB-1</p>	<p>.....+ -----NHQPHRI TNFF IDNI LRPEFGRK -----PDGP--RTTNFSIAN LRPEFGARK -----PAHRNTDFF IDNI LRPDFG -----NLQLPHRI TNFF IDNI LRPDFGRKKEANI -----NLQLPHRI TNFF IDNI LRPDFGRKKEANI -----NV-LPHRI TNFY IDNI LRPDFGRKKEGS -----NHQPHRI TNFF IDNI LRPEFGRKDGATCCAGAGGARGGEGGAGTTEGGGGGAGGAEQL</p>	<p>.....+ -----E -----E -----E -----E -----E -----E -----E</p>	<p>.....+ -----RINHQDEL -----TRYEDN -----TRYEDN -----RRDEIN -----RRDEIN -----RRDEIN -----RRDEIN</p>	<p>.....+ -----E -----E -----E -----E -----E -----E -----E</p>	<p>.....+ -----RINHQDEL -----TRYEDN -----TRYEDN -----RRDEIN -----RRDEIN -----RRDEIN -----RRDEIN</p>	<p>.....+ -----RINHQDEL -----TRYEDN -----TRYEDN -----RRDEIN -----RRDEIN -----RRDEIN -----RRDEIN</p>

	130	140	150	160	170	180
<p>XLEN2MAB-1 BFU82487-1 BRENG1-1</p>	<p>.....+ -----FTGRDT -----RDSKSCDSS--PVSSPG--KPAPG -----CKR-E</p>	<p>.....+ -----GALSGAESGHRV -----DLSPSLPASPG -----REVRTRD--SGVRPTALPDSRSDGVSSAS</p>	<p>.....+ -----NVPEGAGGSSKVI TVTGEKKS -----DLSPSLPASPG -----REVRTRD--SGVRPTALPDSRSDGVSSAS</p>	<p>.....+ -----NVPEGAGGSSKVI TVTGEKKS -----DLSPSLPASPG -----REVRTRD--SGVRPTALPDSRSDGVSSAS</p>	<p>.....+ -----NVPEGAGGSSKVI TVTGEKKS -----DLSPSLPASPG -----REVRTRD--SGVRPTALPDSRSDGVSSAS</p>	<p>.....+ -----NVPEGAGGSSKVI TVTGEKKS -----DLSPSLPASPG -----REVRTRD--SGVRPTALPDSRSDGVSSAS</p>

FIG. 6

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EDIT GENE ARRANGEMENT DATA

	10	20	30	40	50	60
XLEN2MAB-1	MEENEQNREVEPQ0E	SG	-----EESNRG	-----	ILHQAPPG	
BFU82487-1	-----	MANSSADENGNPPASPPPHSPVQPEDSPS	-----	-----	-----	
BRENG1-1	-----	MEDQR-RGQGEEDDGSLSPPPLL	-----	-----	-----	
BRENG2-1	MDENEQSARDVE	QR-GA-D	-----ESNS	A--IRPLQ--APG		
BRENG2G-1	MDENEQSARDVE	QR-GA-D	-----ESNR	A--IRPLQ--APG		
BRENG3-1	MEENDHNRDVE	RO-DS-D	-----ESNR	A--IRPLQ--APG		
MUSEN2AB-1	MEEKDKPSE-AAEAORPEPSSGGSGGG	SP	SDSDTGRRRALMLPEVLO	--APG		
	10	20	30	40	50	60
XLEN2MAB-1	NHQP HRI TNFF IDN LRPEFGRK	-----	-----E	-----RINHDEL		
BFU82487-1	PDGP--RTTNFSIANLRPEFGARK	-----	-----	-----		
BRENG1-1	---PAHRNTDFF IDN LRPDFG	-----	-----	-----		
BRENG2-1	NLQLPHRI TNFF IDN LRPDFGRKKEANI	-----	-----	TRYEDN		
BRENG2G-1	NLQLPHRI TNFF IDN LRPDFGRKKEANI	-----	-----	TRYEDN		
BRENG3-1	NV-LPHRI TNFY IDN LRPDFGRKKEGS	-----	-----	RRDEIN		
MUSEN2AB-1	NHQP HRI TNFF IDN LRPEFGRKDA GTCCAGAGGEGGAGTTEGGGGAGGAEQL					
	10	20	30	40	50	60
XLEN2MAB-1	FTGRDT	-----	GALSGAESGHHRV	-----	NVPEGAGGSSKVI	TVTGEKKS
BFU82487-1	-----	RDSKSCDSS--PVSSPG--KPAPG	-----	DLSPSLPASPGG	-----	
BRENG1-1	-----	CKR-E	-----	REVRTRD--SGVRPTALPDSRSDGVSSAS		

NO CONVERSION

ADD DATA

AUTOMATIC ALIGNMENT

MOTIF EXTRACTION

SETTING

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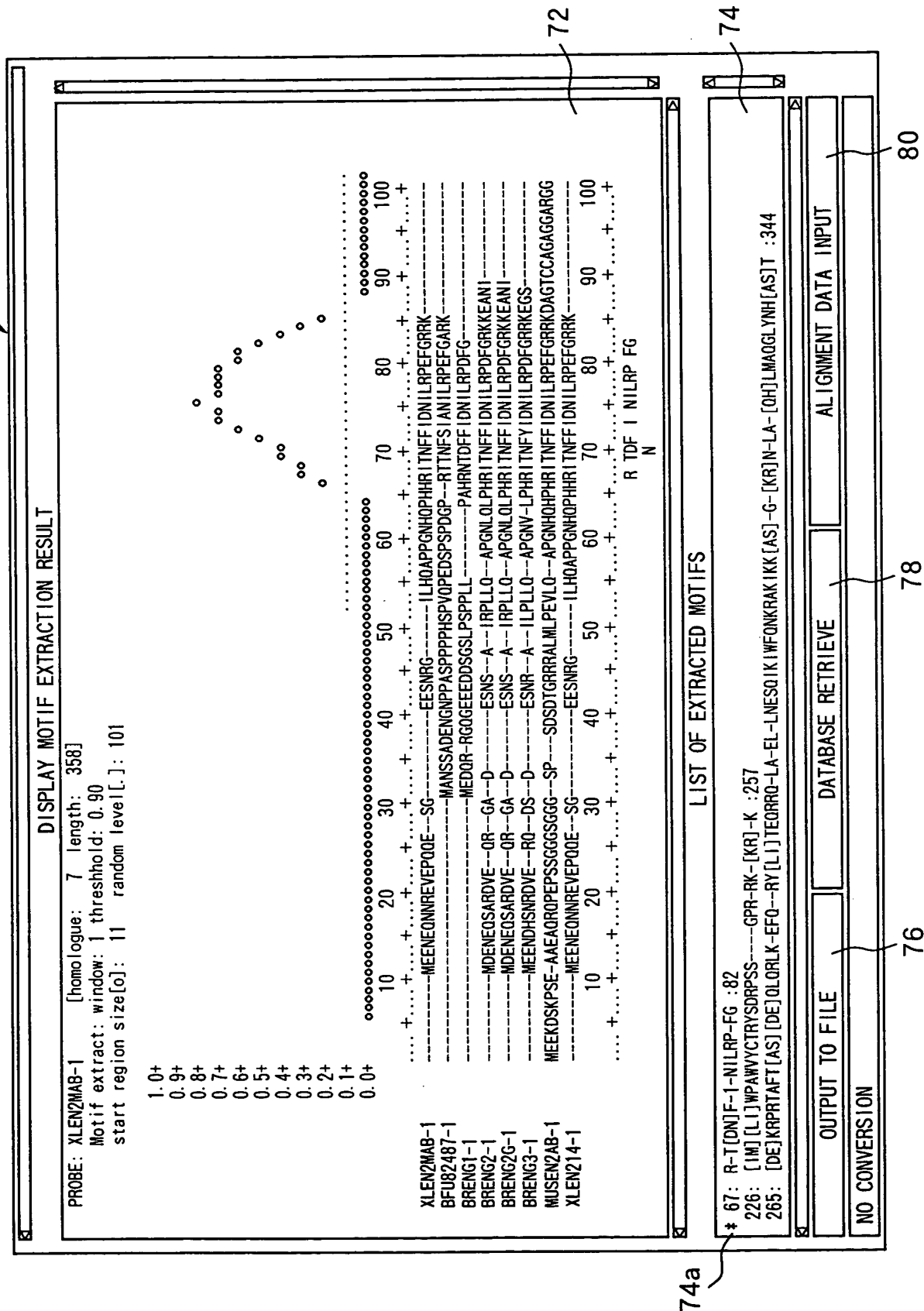
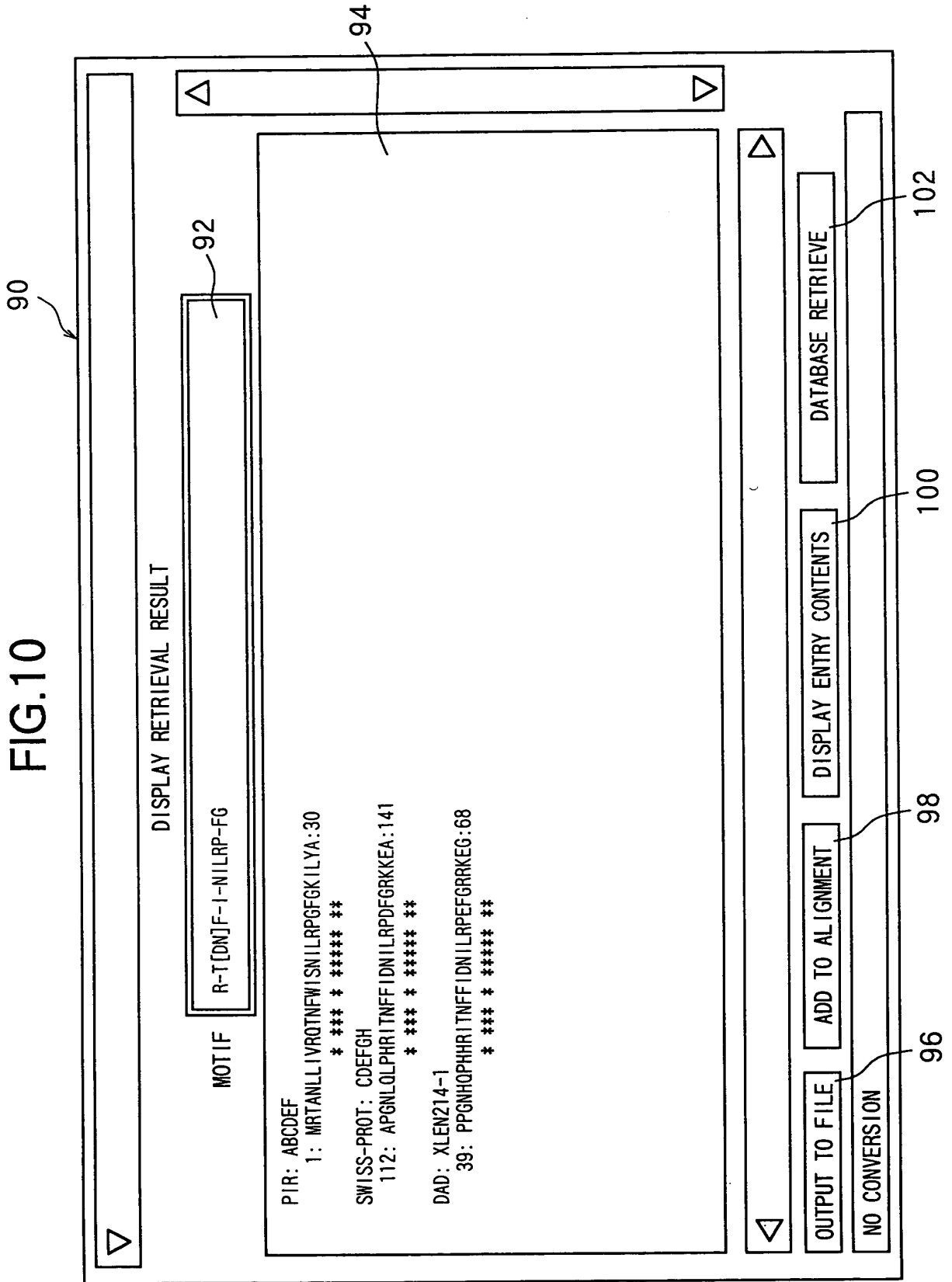


FIG.10



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FIG.12

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EDIT GENE ARRANGEMENT DATA

	10	20	30	40	50	60	
XLEN2MAB-1	.....+	.....+	.....+	.....+	.....+	.....+	
BFU82487-1	-----	-----	-----	-----	-----	-----	
BRENG1-1	-----	-----	-----	-----	-----	-----	
BRENG2-1	-----	-----	-----	-----	-----	-----	
BRENG3-1	-----	-----	-----	-----	-----	-----	
MUSEN2AB-1	-----	-----	-----	-----	-----	-----	
XLEN214-1	-----	-----	-----	-----	-----	-----	
	70	80	90	100	110	120	
	.....+	.....+	.....+	.....+	.....+	.....+	
XLEN2MAB-1	NHQP	HRI	TNFF	DNIL	RPEF	GRRK	
BFU82487-1	PDGP	---	RTTN	FSIA	ILRPE	FGARK	
BRENG1-1	---	PAHR	NTDFF	DNIL	RPDF	---	
BRENG2-1	NLQL	PHRI	TNFF	DNIL	RPDF	GRKK	
BRENG3-1	NV-L	PHRI	TNFF	DNIL	RPDF	GRRK	
MUSEN2AB-1	NHQP	PHRI	TNFF	DNIL	RPEF	GRRK	
XLEN214-1	SHDEL	YTER	DTGAL	SGAES	GHHRV	NP	
	130	140	150	160	170	180	
	.....+	.....+	.....+	.....+	.....+	.....+	
XLEN2MAB-1	FTGR	DT	---	---	---	---	

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ADD DATA
AUTOMATIC ALIGNMENT
MOTIF EXTRACTION
SETTING

NO CONVERSION

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